Index of Claims

Application/Control No.

09/732,674

Examiner

Michael J. Moore, Jr.

Applicant(s)/Patent under Reexamination

HEDDEN, RALPH COLEMAN

Art Unit

2666

| 1  | Rejected |
|----|----------|
| 11 | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla                    | laim Date |               |          |                 |          | 1        | Cla      | im              | Date            |          |   |                        |          |          |               | CI       | aim   | Date      |          |   |                    |       |       |          |          |                |          |          |          |          |                |            |          |
|------------------------|-----------|---------------|----------|-----------------|----------|----------|----------|-----------------|-----------------|----------|---|------------------------|----------|----------|---------------|----------|---|-----------|----------|---|--------------------|-------|-------|----------|----------|----------------|----------|----------|----------|----------|----------------|------------|----------|
|                        |           |               |          |                 |          |          |          |                 |                 |          |   |                        |          | П        | T             | П        |   |           | 1        |   |                    | 1     |       |          |          |                |          |          |          |          |                | П          | П        |
| ल                      | Original  | 1/5/06        | Ш        |                 |          |          |          |                 | l               |          |   | ਰ                      | Original |          |               |          |   |           |          | 1   |                    |       | ब     | Original |          |                |          |          |          |          |                |            |          |
| Final                  | iĝ        | /2/           |          |                 |          |          |          |                 |                 |          |   | Final                  | ġ        |          |               |          |   |           |          |   |                    |       | Final | iĝi      |          |                |          |          |          |          |                |            |          |
| -                      | õ         | _             |          |                 |          |          |          |                 |                 |          |   | "                      | Õ        |          | ı             |          |   |           |          |   |                    |       | _     | Õ        |          |                |          |          |          |          |                |            |          |
| 4                      |           | =             | Н        | -               |          |          | -        |                 | -               | -        | ł | $\vdash$               | 51       | $\vdash$ | $\dashv$      | -+       | +   | +         | +        | ╅   | +                  |       |       | 101      | -        | Н              | -        | H        | $\vdash$ | $\dashv$ | $\dashv$       |            | $\dashv$ |
| 1                      | 1         | $\overline{}$ | $\vdash$ | _               |          |          | -        | H               | ⊢               | -        | 1 | $\vdash$               |          | $\vdash$ | $\dashv$      | $\dashv$ | +   | +         | +        | +   | +-                 |       |       |          |          |                | _        | -        | $\vdash$ |          |                | -          | $\dashv$ |
| 2                      | 2         | =             |          | _               |          |          | _        |                 | <u> </u>        | <u> </u> |   | ${oxdot}$              | 52       |          | $\dashv$      | +        | +   | $\dashv$  | +        | _   | +                  |       |       | 102      |          | Н              |          | Н        | Ш        | Н        | $\rightarrow$  | $\dashv$   | $\dashv$ |
| 3                      | 3         | =             | Ш        | _               | Щ        |          | L.,      |                 | <u> </u>        | <u> </u> |   |                        | 53       | ш        | 4             | 4        | -   | 4         | -        | +   | -                  |       |       | 103      |          |                |          |          | Ш        |          | $\rightarrow$  | -          | $\dashv$ |
| 4                      | 4         | =             |          | _               |          |          |          |                 | <u> </u>        |          |   | $\sqcup$               | 54       | Ш        | _             | 4        | 4   | 4         | 4        | - -   | -                  |       |       | 104      |          |                |          | Ш        | Щ        | Ш        | $\rightarrow$  | _          | _        |
| 5                      | 5         | =             |          | _               |          |          |          |                 | <u> </u>        |          |   | ldot                   | 55       |          | 4             | 4        | 4   | _         | $\perp$  | _   | $\bot$             |       |       | 105      |          |                |          |          |          |          | $\dashv$       | _          | Ш        |
|                        | ф         |               |          | _               | Ш        |          |          |                 |                 |          |   | igsquare               | 56       | Ш        |               |          |   | _         |          |   |                    |       |       | 106      |          |                |          | Щ        |          |          | $\dashv$       |            | _        |
| 6                      | 7         | =             |          |                 |          |          |          |                 | L               |          |   |                        | 57       | Ш        |               |          |   |           | ᆚ        |   |                    |       |       | 107      | $\Box$   |                |          | Ш        |          |          |                | _          | Ш        |
| 7                      | 8         | =             |          |                 |          |          |          |                 |                 |          |   |                        | 58       |          | _             | ┙        | $\perp$   |           | ┙        | ┸   |                    |       |       | 108      |          |                |          |          |          |          |                | $\Box$     |          |
| 8                      | 9         | =             |          |                 |          |          |          |                 |                 |          |   |                        | 59       |          |               |          |   |           |          |   |                    |       |       | 109      |          |                |          |          |          |          | Ш              |            |          |
| 9                      | 10        |               |          |                 |          |          | L        |                 |                 | L        |   |                        | 60       |          | $_{ m I}$     | $\prod$  | $\prod$   | $_{ m I}$ |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |                    |       |       | 110      |          |                |          |          |          |          | ַТ             | T          |          |
| 10                     | 11        | =             |          |                 |          |          |          |                 |                 |          |   |                        | 61       |          | Т             | T        |   | Т         | T        |   |                    |       |       | 111      |          |                |          |          |          |          | $\neg$         | ヿ          | П        |
| 11                     | 12        | =             |          |                 |          |          |          |                 |                 |          |   |                        | 62       |          | T             | $\neg$   | T   | $\top$    | $\top$   |   |                    |       |       | 112      |          |                |          |          |          |          | T              | $\exists$  | $\Box$   |
| 12                     | 13        | =             |          |                 |          |          |          | $\Box$          |                 |          |   | $\Box$                 | 63       |          | 寸             | $\dashv$ | 一   | $\neg$    | $\top$   | $\top$  | $\top$             |       |       | 113      |          |                |          |          |          |          | $\dashv$       | $\neg$     | $\neg$   |
| 13                     | 14        | =             | $\dashv$ |                 |          | М        |          |                 | П               |          | 1 |                        | 64       | $\Box$   | 十             | $\dashv$ | $\top$  | _         | $\top$   | $\top$  | 1                  |       |       | 114      |          |                |          | М        |          |          | $\top$         | $\dashv$   | $\dashv$ |
| 14                     | 15        | =             |          |                 |          |          |          |                 |                 | -        |   |                        | 65       | $\vdash$ | _             | 十        | $\dashv$  | 十         | $\top$   | $\top$  |                    |       |       | 115      | $\vdash$ |                |          | Н        | $\dashv$ |          | $\dashv$       | 一          | $\neg$   |
| 15                     | 16        | =             | $\vdash$ | $\neg$          | $\vdash$ | Н        |          |                 |                 | $\vdash$ | 1 |                        | 66       | $\vdash$ | 十             | $\dashv$ | $\top$  | $\dashv$  | $\dashv$ | $\top$  | $\top$             |       |       | 116      | П        |                |          | Н        | $\vdash$ |          | $\dashv$       | $\dashv$   | $\dashv$ |
| ┌╌┤                    | 7         | -             | $\vdash$ | -               | $\vdash$ | $\vdash$ | H        | H               | Н               | H        |   | $\vdash \vdash$        | 67       | $\vdash$ | 十             | +        | +   | +         | +        | ╁   | +-                 |       |       | 117      | $\vdash$ | -              | $\vdash$ | Н        | $\vdash$ |          | $\dashv$       | ᆉ          | $\dashv$ |
| 16                     | 18        | =             | $\vdash$ |                 | $\vdash$ | $\vdash$ |          | $\vdash$        | $\vdash$        | -        | ı | $\vdash$               | 68       | $\dashv$ | +             | $\dashv$ | +   | $\dashv$  | +        | +   | +                  |       |       | 118      | $\vdash$ | $\vdash$       | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\dashv$       | $\dashv$   | $\dashv$ |
| 17                     | 19        | =             | $\dashv$ | $\dashv$        | $\vdash$ | _        | Н        | $\vdash$        | ⊢               | -        |   | <del></del>            | 69       |          | +             | -        | +   | +         |          | +-  | +-                 |       |       | 119      |          | -              |          | $\vdash$ | -        | $\dashv$ |                | ᆉ          | =        |
|                        |           |               |          |                 |          |          | $\vdash$ | -               |                 |          |   |                        |          | -        | $\dashv$      | $\dashv$ | +   | +         | $\dashv$ | +   | +                  |       | -     |          | $\dashv$ |                | $\vdash$ | $\dashv$ | -        | $\dashv$ |                |            |          |
| 18                     | 20        | =             | $\dashv$ | -               | $\dashv$ | -        | Ш        |                 | Н               |          |   |                        | 70       |          | +             | 4        | +   | +         | 4        | +-  | +                  |       |       | 120      |          | -              | _        | $\dashv$ |          |          | $\dashv$       | 4          | _        |
| Ш                      | 21        |               |          | -               | $\perp$  |          |          |                 |                 |          |   | $\vdash \vdash \vdash$ | 71       |          | 4             | 4        | +   | +         | 4        | +   | +                  |       |       | 121      |          |                |          | _        | _        |          |                | -          | _        |
|                        | 22        |               | Ц        | _               | _        |          | Щ        | Ш               | Щ               |          |   | $\sqcup$               | 72       |          | 4             | 4        | +   | 4         | _        | $\bot$  | _                  |       |       | 122      |          |                |          |          |          |          | _              | _          | _        |
|                        | 23        |               | _        | 4               |          |          |          | Ш               | Щ               |          |   | igsquare               | 73       | _        | 4             | 4        | $\bot$  | 4         | _        | _   | 1                  |       |       | 123      |          |                |          |          | _        |          |                | _          | ᆜ        |
|                        | 24        |               | Ц        | _               | Ц        |          |          | Щ               | Ш               |          |   | $\sqcup$               | 74       | _        | 4             | _        | $\perp$   | $\perp$   | _        | $\bot$  | —                  |       |       | 124      |          |                |          |          |          |          |                | _          |          |
|                        | 25        |               | _        |                 |          |          |          |                 | Ш               |          |   |                        | 75       |          | ightharpoonup | _        | $\perp$   | _         | 4.       | Ш.  |                    |       |       | 125      |          |                |          |          |          | $\Box$   |                |            |          |
|                        | 26        |               |          |                 |          |          |          |                 | Ш               |          |   | $\Box$                 | 76       |          | $\perp$       | $\perp$  | ┵   |           |          |   |                    |       |       | 126      |          |                |          |          |          |          | $\Box$         | $\dashv$   |          |
|                        | 27        |               |          |                 |          |          |          |                 |                 |          |   |                        | 77       |          |               |          | ⊥   |           |          |   |                    |       |       | 127      |          |                |          |          |          |          |                |            |          |
|                        | 28        |               |          |                 |          |          |          |                 |                 |          |   | igsquare               | 78       |          |               |          | L   |           |          |   |                    |       |       | 128      |          |                |          |          |          |          |                |            |          |
|                        | 29        |               |          |                 |          |          |          |                 |                 |          |   |                        | 79       |          |               |          |   |           |          |   |                    |       |       | 129      |          |                |          |          |          | Ï        |                |            |          |
|                        | 30        |               |          | Ī               |          |          |          |                 | П               |          |   |                        | 80       |          | T             | Т        | Т   | Т         |          | Т   | $\Box$             |       |       | 130      |          |                |          |          |          |          | $\neg$         | П          | П        |
|                        | 31        |               | $\Box$   | $\neg$          |          |          | П        |                 | П               |          |   |                        | 81       | $\neg$   | $\top$        | $\neg$   | $\top$  | 十         | ┪        | $\top$  |                    |       |       | 131      | $\neg$   |                |          |          |          |          | $\dashv$       | ヿ          | ヿ        |
|                        | 32        |               | 一        |                 | 寸        |          |          | М               | П               |          |   |                        | 82       | $\dashv$ | $\top$        | $\dashv$ | 十   | $\top$    | 1        | $\top$  | 1                  |       |       | 132      | $\neg$   |                |          |          |          | $\dashv$ | $\dashv$       | ヿ          | $\dashv$ |
| $\Box$                 | 33        |               | _        | $\neg \uparrow$ | 寸        |          |          |                 | П               |          |   |                        | 83       |          | $\dashv$      | $\top$   | $\top$  | $\top$    | $\top$   | $\top$  | $\top$             |       |       | 133      |          | $\neg$         | $\dashv$ |          | $\neg$   | $\neg$   | $\dashv$       | $\dashv$   | $\dashv$ |
| М                      | 34        |               | 一        |                 | 一        | $\dashv$ |          | М               | $\vdash$        | _        |   | $\Box$                 | 84       | $\dashv$ | $\top$        | $\top$   | +   | $\top$    | $^{+}$   | +   | $\top$             |       | -     | 134      | $\dashv$ | $\dashv$       | $\vdash$ |          |          | -        | $\dashv$       | $\dashv$   | $\dashv$ |
| $\vdash$               | 35        |               | 一        | -               |          |          |          |                 | H               | _        |   | $\Box$                 | 85       | $\vdash$ | $\dashv$      | $\top$   | $\top$  | $\top$    | +        | $\top$  | $\top$             |       |       | 135      |          |                |          |          |          | $\dashv$ | $\dashv$       | $\dashv$   | $\dashv$ |
| $\vdash$               | 36        |               | $\dashv$ | _               | $\dashv$ | -        |          |                 | Н               |          |   |                        | 86       | $\vdash$ | +             | +        | +   | $\dashv$  | +        | +   | +                  |       |       | 136      |          | $\neg$         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$       | -          | $\dashv$ |
| $\vdash$               | 37        |               | -        | $\dashv$        | $\dashv$ | $\dashv$ | -        |                 | $\vdash$        | _        |   |                        | 87       | $\dashv$ | $\dashv$      | +        | +   | +         | +        | +   | +                  |       |       | 137      | -        | $\dashv$       | -        | $\vdash$ | -        | $\dashv$ | -+             | -+         | $\dashv$ |
|                        | 38        | $\neg$        | $\dashv$ |                 |          |          | $\dashv$ | $\vdash$        | Н               | _        |   |                        | 88       | $\dashv$ | $\dashv$      | $\dashv$ | +   | +         | +        | +-  | +                  |       | -+    | 138      |          | $\dashv$       | $\dashv$ |          |          | $\dashv$ | $\dashv$       | $\dashv$   | $\dashv$ |
| $\vdash$               | 39        |               | $\dashv$ |                 | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$        | Н               |          |   |                        | 89       | $\dashv$ | -+            | +        | +   | +         | +        | +   | 1-                 |       |       | 139      |          | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$       | -+         | $\dashv$ |
| $\vdash$               | 40        |               |          |                 | $\dashv$ |          | $\dashv$ |                 | Н               |          |   |                        | 90       | $\dashv$ |               | +        | +   | -         | +        | +   | +                  |       |       | 140      | $\dashv$ | $\dashv$       | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$       | -+         | ᅱ        |
| $\vdash$               |           | $\dashv$      | $\dashv$ |                 | $\dashv$ | -        | $\dashv$ | Н               | $\vdash$        | _        |   |                        |          | -+       | +             | +        | +   | +         | +        | +   | +                  |       |       |          | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ |          | -              |            | $\dashv$ |
| $\vdash \vdash \vdash$ | 41        | -             | -        | $\dashv$        | -        |          | $\vdash$ | $\vdash$        | $\vdash \vdash$ |          |   |                        | 91       | -        | +             | +        | +   |           | -        | +   |                    |       |       | 141      |          |                |          |          | $\dashv$ | $\dashv$ | $\dashv$       | $\dashv$   | $\dashv$ |
|                        | 42        |               | -        |                 |          |          |          | $\vdash \vdash$ | $\vdash \vdash$ |          |   |                        | 92       | -        | -+-           | -        | +   | +         | -        | +   |                    |       |       | 142      | _        |                | _        | $\sqcup$ |          |          | $\dashv$       | $\dashv$   | 긕        |
| <b> </b>               | 43        |               | _        | _               | _        | _        | Щ        | $\sqcup$        | $\sqcup$        |          |   | <del>  </del>          | 93       | $\dashv$ | $\dashv$      | 4        | 4   | 4         | 4        | $\bot$  |                    |       |       | 143      | _        | ļ              |          | _        | _        | _        | $\dashv$       | _          | ᅴ        |
| $\vdash$               | 44        |               | _        | _               |          |          |          | Ш               | $\sqcup$        |          |   |                        | 94       | $\dashv$ | _             | 4        | 4   | 4         | _        | _   | 4                  |       |       | 144      | _        | ļ              |          |          |          | _        | $\dashv$       |            | _        |
|                        | 45        |               | _        | ļ               | _        | _        |          | Ш               | Ш               |          |   | <b></b>                | 95       | _        | 4             | $\perp$  | _   | 4         | _        | $\bot$  | $oldsymbol{\perp}$ |       |       | 145      | $\Box$   |                |          |          | ļ        |          |                |            |          |
|                        | 46        |               |          |                 |          |          |          |                 | Ш               |          |   |                        | 96       |          | $\perp$       |          | $\perp$   | $\perp$   | 丄        | $\perp$   | $\perp$            |       |       | 146      |          | l              |          |          |          |          | $\perp$        |            | $\Box$   |
|                        | 47        | ]             |          |                 |          | [        |          |                 |                 |          |   |                        | 97       |          |               |          |   |           |          |   |                    | ::::[ |       | 147      |          | [              |          | [        |          | $\sqcup$ | $\bot$         | $_{\perp}$ |          |
|                        | 48        |               |          |                 | [        |          |          |                 |                 |          |   |                        | 98       | $\Box$   | $\perp$       | $\Box$   |   | $\prod$   | $\Box$   | Ţ   |                    |       |       | 148      | I        | $\blacksquare$ | ]        |          | I        |          | $ \mathbb{J} $ | $\Box$     |          |
|                        | 49        |               |          |                 |          |          |          |                 |                 |          |   |                        | 99       | $\Box$   | $\Box$        | $\prod$  | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\Box$    |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |                    |       | T     | 149      |          | ⅃              | $\Box$   |          |          | 7        |                | _T         | _7       |
|                        | 50        | П             | $\neg$   |                 |          |          |          |                 |                 |          |   |                        | 100      | T        | Т             | Τ        | Т   | Т         | T        | T   |                    |       |       | 150      | $\Box$   |                |          |          |          |          | T              | T          | コ        |